PROPOSED FLETC TRAINING CENTER
WETLANDS RARE PLANT SURVEY

LOCATION: Cheltenham, Prince Georges Co., MD

DRAINAGE: Piscataway Creek

GEOLOGY: Upland – Pleistocene Brandywine formation
Lower creeks eroded into Miocene Calvert formation

DESCRIPTION OF WETLANDS: See maps for approximate location and extent of wetlands.

WKS-A: Isolated depression surrounded by scrub pine. Almost all grasses – Panicum dicotomiflorum, Andropogon virginicus, Aristida longispica- with a few Juncus effusus and Eupatorium hyssopifolium.

WKS-C: Young maple – sweet gum woods with Cinna, stilt grass, Lycopus virginicus, Aster lateriflorus, and Carex spp.

WKS-D: Shaded by a thin canopy of red maple with scattered highbush blueberry. Mostly grass -- Calamagrostis cinnoides and Chasmanthium laxum, with two mosses – Sphagnum sp. and Polystrichum type-and scattered Lycopus virginicus, Aster lateriflorus, and Osmunda cinnamomea.

WETLAND B: Stream corridor. Upper part has red maple, sweet gum,and greenbrier. Wider stretches have stilt grass. Middle part, near road crossing, is more open, with some maple, sweet gum, willow, arrowwood viburnum, and alder. Between shrubs is a heavy ground cover of goldenrods, deer tongue grass (Panicum clandestinum) and vines -- honeysuckle and grape, with a few Carex spp. and Polygonumspp. in the stream channel. Lower part has heavy shade of mostly red maple with no shrubs and a carpet of stilt grass and wood reed grass (Cinna arundinacia), and a few Onoclea sensibalis, Lycopus virginicus, Boehmeria cylindrica, and Carex spp. Near the lower end is a small open patch dominated by Carex spp. and Polygonum spp.

HF-A & B: A wedge between road and fence. Nearly level young maple – sweet gum woods with greater diversity of both shrubs and herbs, including Cornus ammomum, Betula nigra, Ilex verticillata, Alnus serrulata, Scirpus cyperinus, Onoclea sensibalis, Aster lateriflorus Juncus spp., Carex spp., grass spp., several Scutellaria lateriflora and Lobelia cardinalis, and a population of Galium trifidum. This area has the only good quality forested wetland on the survey area. The tip of the wedge is open, with deer tongue grass and goldenrods.

HF-C: Erosion gully in maple woods with arrowwood viburnum at edge, stilt grass and Carex spp.

HF-D: A partly cleared strip along the fence with maple, spicebush, stilt grass, Cinna, and Glyceria striata.

HF-E: Upper part is open ditch with sweet gum saplings on edge and some Carex lurida, Polygonum punctatum, Erichtites hieracifolia, between heavy patches of deer tongue grass and fescue. The lower part is maple woods with stilt grass and Cinna.

RB-A: Isolated bowl in middle of grassy field, with one willow in middle, and remnants of dead Phragmites. Herbaceous species include Scirpus cyperinus, Juncus effusus,Eupatorium coelestinum, Epilobum coloratum, and Aster spp.

RB-B: Another high-quality wetland with some forested habitat similar to HF_A & B, and also with some opener, usually wet areas carpeted with Ludwigia palustris. Other species include Rosa carolina, Cephalanthus occidentalis, Callitriche sp., Echinocloa muricata, Panicum rigidulum, and Leersia oryzoides. Eastward the edges revert to maple – stilt grass woods, and there is an alder thicket near the east fence.

RB-?: Eroded stream channel through maple – sweet gum woods.

RARE PLANTS: Two species of concern have been reported from near the site:

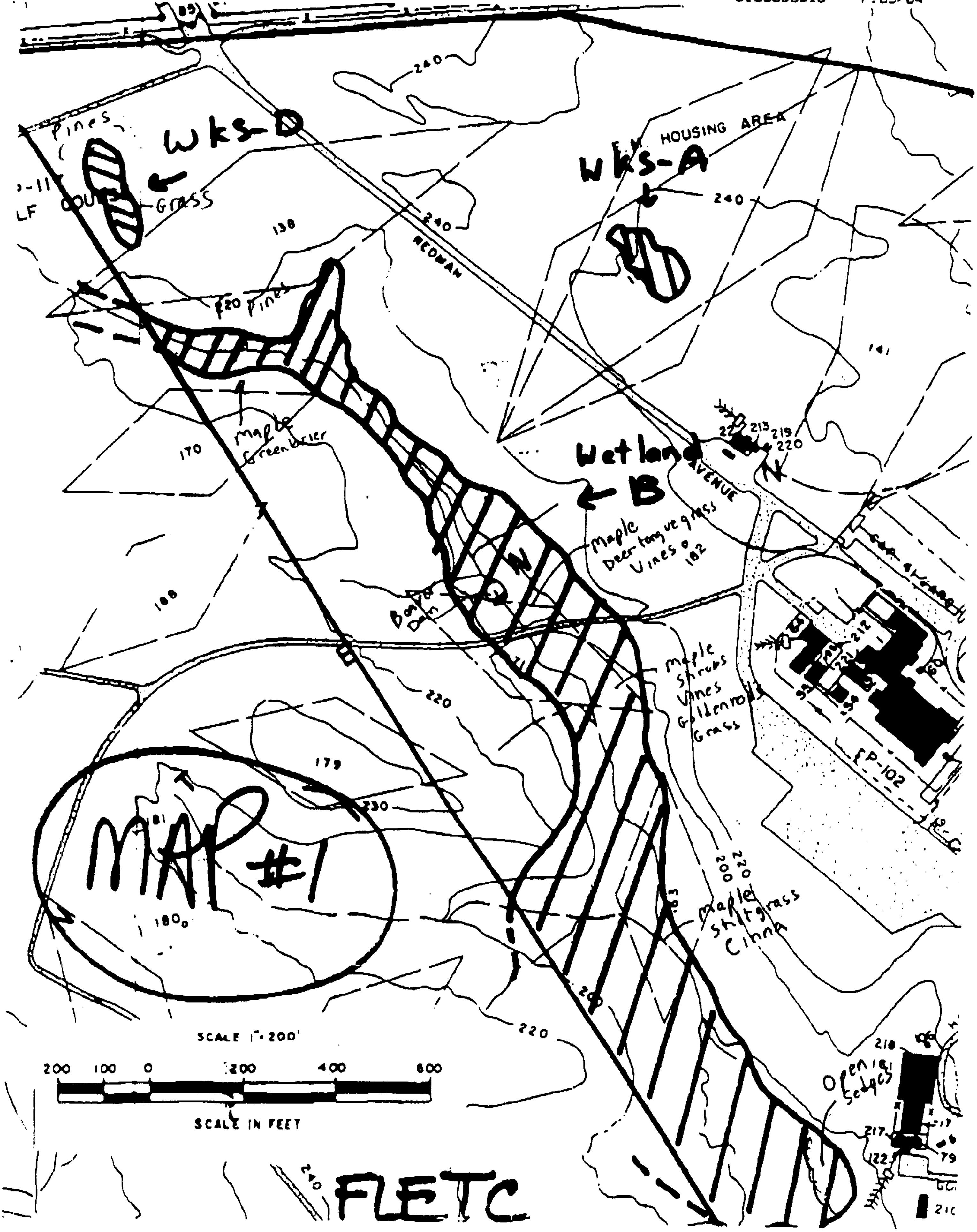
Polygonum densiflorum – Dense-flowered knotweed – Endangered
Galium trifidum – Small bedstraw – Undetermined

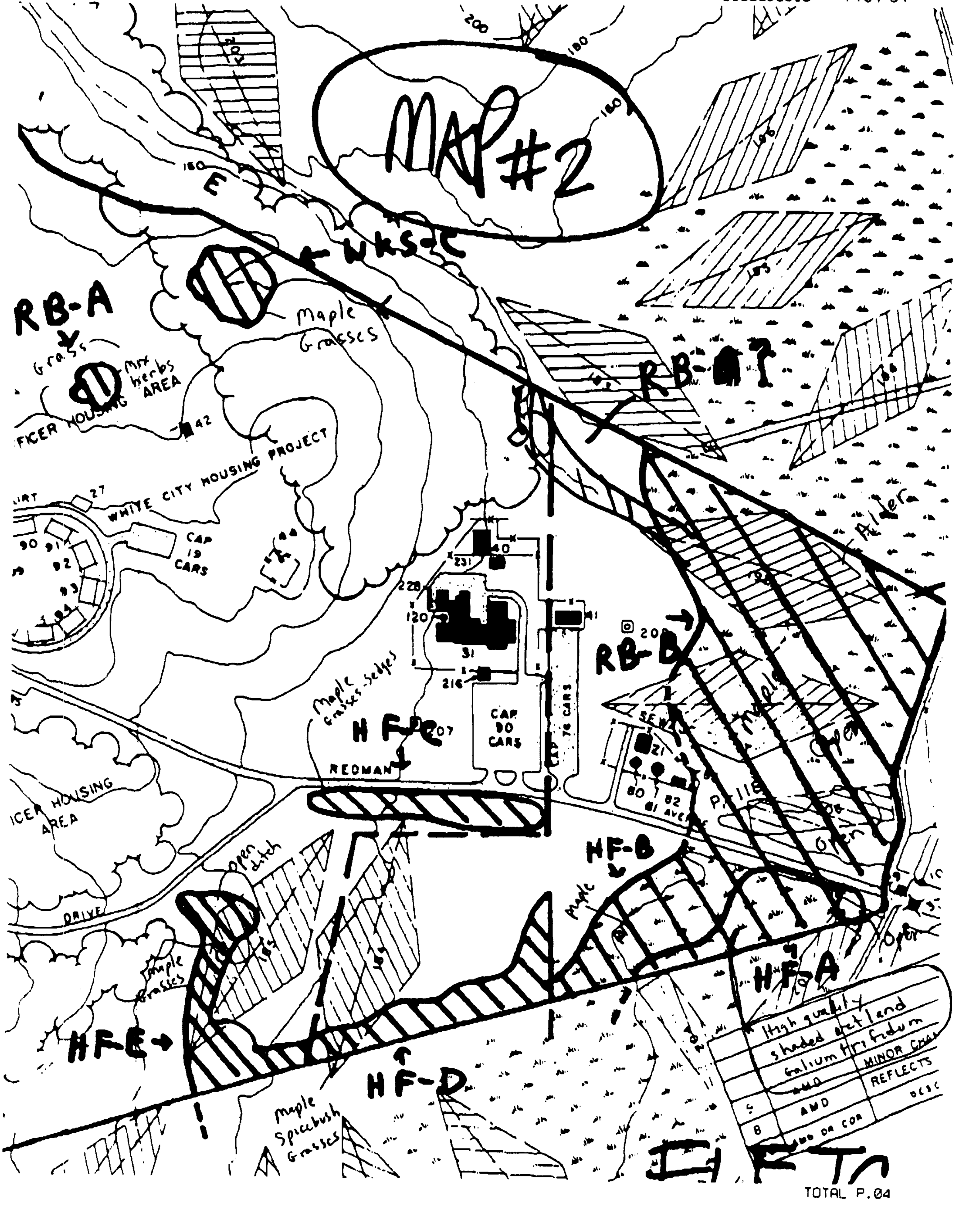
Polygonum densiflorum usually grows in shallow water. There is no good habitat for this species on the site, and no large Polygonums were seen.

Galium trifidum is found in moist woods and edges. It is a northern species, at the southern edge of it's range in Maryland. A well-established population is growing on the site in the wetlands associated with Piscataway Creek. Plants are scattered in alien-free and not heavily shrubby red maple woods, which is also the area of the highest-quality wetlands on the site.

SURVEYED: 15 October, 2001, approximately 4 hours

Janet Ebert


Pines
Wks-D
Grass
Wks-A
E.M. HOUSING AREA
240
138
REDMAN
220 Pines
Maple
Greenbrier
170
Wetland
B
AVENUE
Maple
Deertongue grass
Vines
182
188
Beaver Dam
Maple
Shrubs
Vines
Goldenrods
Grass
220
179
230
MAP #1
180
EP-102
200
Maple
Stiltgrass
Cinna
Open
Sedges
SCALE 1"=200'
200 100 0 200 400 600
SCALE IN FEET
FLETC


MAP #2
RB-A
Grass
mix herbs
OFFICER HOUSING AREA
WHITE CITY HOUSING PROJECT
CAP 19 CARS
Maple
Grasses
RB-B
Alder
Maple
Open
Maple Grasses Sedges
HF-C
REDMAN
CAP 90 CARS
CAP 76 CARS
HF-B
HF-A
OFFICER HOUSING AREA
DRIVE
open ditch
maple Grasses
HF-E
HF-D
Maple Spicebush Grasses
High quality
shaded wetland
Galium trifidum
MINOR CHAN
REFLECTS

Galium trifidum
known locations O
Possible Habitat
ROJECT
228
120
31
216
207
208
CAP
90
CARS
78 CARS
REDMAN
21
80
82
81 AVE
A few plants here
Most of plants here

Site Name: Old Naval Reservation - Cheltenham Date: 01-10-15 Source Code: F01 EBE 03 Janet Ebert

Quad Name(s): Brandywine Date: _____ Source Code: _____

Quad Code(s): _____ Date: _____ Source Code: _____

State: MD County(ies): Prince Georges Date: _____ Source Code: _____

Field Quad Margin #: _____ Date: _____ Source Code: _____

Full extent of EO known and mapped? ____ yes ____ no

Precise locations of individuals or groups mapped on base map? ____ yes ____ no

BIOLOGY

Element Name: Galium trifidum L. Element Code: _____ Occ.#: ____

Phenology
- ____ % In Leaf
- ____ % In Bud
- ____ % In Flower
- ____ % Immature Fruit
- ____ % Mature fruit
- ____ % Seed dispersing
- ____ % Dormant

Population Size

Ramets		Genets
____	actual # / estimated #	____
____	1-10	____
____	11-50	X
____	51-100	____
____	101-1000	____
____	1001-10,000	____
____	10K+	____

Population Area
- ____ 1 sq meter
- ____ 1-5 sq. meter
- ____ 5-10 sq. meter
- ____ 1-100 sq. meter
- X 100 sq mtr-1 hect.
- ____ 1 hectare +
- ____ actual area (if known)

Age Structure
- ____ % Seedlings
- ____ % Immature
- ____ % 1st year
- ____ % Mature (established)
- ____ % Senescent
- X Age structure unknown

Vigor
- ____ Very feeble
- ____ Feeble
- ?? Normal
- ____ Vigorous
- ____ Exceptionally vigorous

Comments on above: Probably at least 20 plants, most long past flowering, with new vegetative shoots

Evidence of reproduction? X yes ____ no Explain: A few late fruits

Type of reproduction: X sexual ____ asexual ____ both

Any symbiotic or parasitic relationships? ____ yes X no Explain: _____

Evidence of disease, predation, or injury? ____ yes X no Explain: _____

Success at Each Stage of Life Cycle

	good	fair	poor	none	uncertain
reproduction					X
dispersal					X
establishment					X
maintenance					X

Comments: _____

HABITAT

Aspect
- ____ N
- ____ NE
- ____ E
- ____ NW
- ____ S
- ____ SE
- ____ W
- ____ SW
- X Flat

Slope
- X 0-3 %
- ____ 3-8 %
- ____ 8-15 %
- ____ 15-35 %
- ____ 35% - Vertical

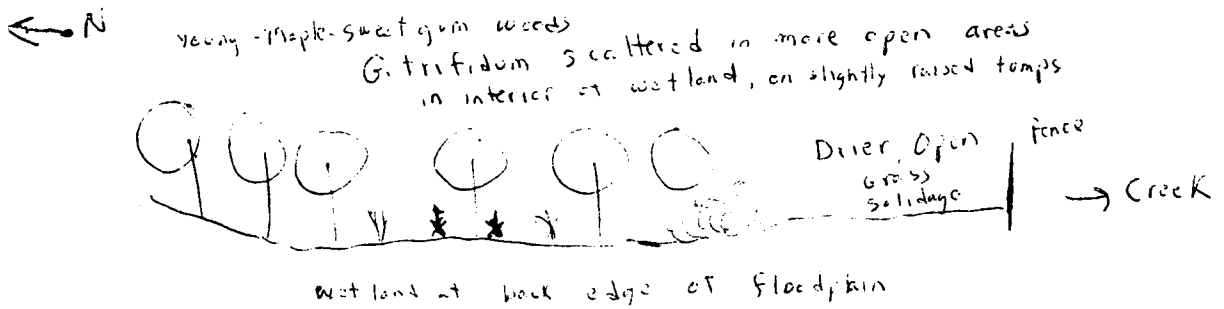
Light
- ____ Open
- ____ Partial
- X Filtered
- ____ Shaded

Topographic position
- ____ Crest
- ____ Upper Slope
- ____ Mid-Slope
- ____ Lower Slope
- X Bottom

Mosture
- ____ Inundated (Hydric)
- X Saturated (Wet-Mesic)
- ____ Moist (Mesic)
- ____ Dry-Mesic
- ____ Dry (Xeric)

Elevation: ~150' ft to _____ ft

Cross section of topography (habitat) / Include scale, direction, element position



HABITAT (continued)

Associated natural community/plant community: Wet young maple-sweetgum woods - fairly open under

Natural community form completed? ____ yes ____ no

Associated plant species Acer rubrum, Liquidambar styraciflua, Alnus serrulata Quercus palustris, Cinna arundinacia, Scirpus cyperinus, Panicum dicotomum, Aster lateriflorus, Onoclea sensibalis, Juncus spp, Scutellaria lateriflora Carex spp.

Soil name(s)/Substrate: ____

Estimated # of hectares of potential habitat in the immediate area: ?

IDENTIFICATION

Potograph taken? ____ yes X no

Specimen taken? X yes ____ no If yes, give collector, colection # and repository: Surveyor has very poor speciman

Do other members of this genus co-occur at this site? X yes no If yes, complet below:

List: Possible G. tinctorium

Hybridization? ____ yes ____ no Could only find a few late-season inflorescenes mostly second effort vegetative stems.

Identification problems? X yes ____ no Explain: ID based on consistantly 4 uniform, longer, narrower leaves. Pedicels somewhat scabrous, fruits small

CONSERVATION

Owner aware of EO? X yes ____ no ____ Unknown Owner protecting EO? ____ yes ____ no ? Unknown

Evidence of disturbance: No recent

Threats to EO: Change in hydrology

Conservation/management needs: Keep floodplain wetland intact.

Areas upstream and downstream already preserved??

Research needs: ____

Data security? ____ yes ____ no Explain: ____

SUMMARY

EO Quality: (i.e., How representative is this occurence? Consider the size and productivity of the population and the vitality and vigor of the individuals.)

A - Excellent (B - Good) (C - Marginal) D - Poor

Comments: ?

EO Condition: (i.e., is the habitat supporting the EO pristine or degraded? Is there a potential for the habitat to recover from disturbances?

A - Excellent B - Good (C - Marginal) D - Poor

Comments: ____

EO Viability: (i.e., what are the long-term prospects for continued existence of this occurrence at the indicated level of quality?)

A - Excellent (B - Good) C - Marginal D - Poor

Comments: Good if whole wetland area is preserved

EO Defensibility: (i.e., can this occurence be protected from intrinsic human factors?)

A - Excellent B - Good (C - Marginal) D - Poor

Comments: ____

EO Rank: (i.e., a summary of all factors listed above) A (B) (C) D

Comments: Nice habitat, vulnerable